

Date: Wed, 3 Mar 93 04:30:13 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #279
To: Info-Hams

Info-Hams Digest Wed, 3 Mar 93 Volume 93 : Issue 279

Today's Topics:

 Advise on what TNC to buy
 ALERT: Major Solar Flare Alert
 Daily Solar Geophysical Data Broadcast for 02 March
 How to use a TS-520 w/ an Isolooop
 NEED DOPPLER DF INFO
 PACTOR vs AMTOR in poor S/N environment
 Snake Island - Which DXCC Country?
 Yeadu 5200 information needed - "P" Key!

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 2 Mar 1993 19:50:08 GMT
From: sun-barr!male.EBay.Sun.COM!news2me.EBay.Sun.COM!exodus.Eng.Sun.COM!
appserv.Eng.Sun.COM!concertina!fiddler@ames.arpa
Subject: Advise on what TNC to buy
To: info-hams@ucsd.edu

In article <1993Mar2.025008.24705@clark.edu> day@thrain.vancouver.wsu.edu (Steve
Day) writes:

>
>I'm getting ready to buy a tnc and would like to know what people think
>about the AEA PK-232, Kantronics KAM, and the Data Engin. I'm
>interested in easy of use, flexibility, performance, and expandability.
>I'll be using the tnc on a Mac IIsi so I would also like to know about
>software that is available, either from the manufacturer or third party.
>

>Currently my interests are primarily in packet, but I would like to be
>able to use the other modes as well.

>

>Please respond by e-mail.

Don't forget to summarize to the group after you've collected the wisdom
presented on the question. :}

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| Some things are too important not to give away |
| to everybody else and have none left for yourself. |
|----- Dieter the car salesman-----|

Date: 3 Mar 93 05:24:54 GMT
From: news-mail-gateway@ucsd.edu
Subject: ALERT: Major Solar Flare Alert
To: info-hams@ucsd.edu

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MAJOR SOLAR FLARE ALERT

ISSUED: 02:00 UT, 03 MARCH

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* NIL to Low Impact Possible *

MAJOR ENERGETIC EVENT SUMMARY:

(All times are valid for the UT day of 02 March)

Flare Size: Class M5.1/SF

Location: S07E81 (Region 7440)

Tenflare: 180 sfu at 2110Z, duration: 56 minutes

SESC Times: Begin=02/2038 UT, Peak=02/2149 UT, End=02/2235 UT

(SESC Times are based on a half-power-point system)

Sweeps: Moderate (Importance 2) Type II Sweep observed.

PRELIMINARY X-RAY TIME PROFILE DATA AND ESTIMATED STATISTICS:

BEGIN (XRAY)	MAX (XRAY)	END (XRAY)	DURATION	INTEG. FLUX	SWF DUR.
-----	-----	-----	-----	-----	-----
2038 (C1.5)	2149 (M5.1)	2349 (C9.8)	189 MIN.	0.288 J/m ²	181 min

NOTE: The xray time profile data above is not based on the half-power-point system, but is intended to give a general idea of the duration of the entire event, from the start to the end when xrays fall below M-class levels. Integrated x-ray flux covers the interval from start to end.

SYNOPSIS:

This major M5.1/SF tenflare was preceded by a class M1.8 x-ray precursor at 20:52 UT. The x-ray signature of this flare was impressive with an integrated x-ray flux of approximately 0.288 J/m² measured from the start of the event until x-rays crossed below the M-class threshold. This flare produced a moderate to strong ionospheric short wave fadeout (SWF) and may have accelerated protons. The background proton fluence at greater than 10 MeV has been climbing over the last several days. The arrival of this region to the east limb and its apparent ability to produce a sustained x-ray flare may explain the enhanced fluence.

Additional minor to major flares appear to be possible from this region. Enhancements in greater than 10 MeV protons may be observed if activity continues as this region traverses the solar disk toward the central meridian.

A warning for potential major flares is presently active and will be officially released later tomorrow (if warranted) after this region has been better analyzed.

POTENTIAL TERRESTRIAL IMPACT ASSESSMENT:

The following tables depict the preliminary estimated potential for terrestrial impacts in various categories. These tables are valid only for the flare described and do not include assessments for previous influential flare events.

POTENTIAL MAGNITUDE OF DISTURBANCE

HIGH : 01 %
 MODERATE : 10 %
 LOW : 30 %
 NONE : 59 %

OVERALL ARRIVAL PROBABILITY : 25 %

ESTIMATED WINDOW OF SHOCK ARRIVAL IF SHOCK ARRIVES

MINIMUM	EARLY	PREFERRED	LATE	MAXIMUM
02/____ UT	02/____ UT	02/____ UT	02/____ UT	02/____ UT
MARCH	MARCH	MARCH	MARCH	MARCH
5 %	45% PROBABILITY	45% PROBABILITY		5 %

CONFIDENCE IS NOT HIGH ENOUGH TO ESTIMATE SHOCK ARRIVAL TIMES

POTENTIAL FOR >10 MEV PROTONS

HIGH FLUX : 0 % > 100 PFU
 MODERATE FLUX : 5 % > 10 PFU
 LOW FLUX : 10 % > 1 PFU
 NONE : 85 % <= 1 PFU

OVERALL ARRIVAL PROBABILITY: 25 %

EST. POTENTIAL GEOMAGNETIC IMPACT

SEVERE STORM : 1 %
 MAJOR STORM : 5 %
 MINOR STORM : 25 %
 ACTIVE OR LESS : 69 %

PROBABLE SI ASSOCIATION : 35 %

POTENTIAL FOR >100 MEV PROTONS

HIGH FLUX : 0 % > 100 PFU
 MODERATE FLUX : 0 % > 10 PFU
 LOW FLUX : 0 % > 1 PFU
 NONE : 100 % <= 1 PFU

OVERALL ARRIVAL PROBABILITY: 0 %

EST. POTENTIAL IONOSPHERIC IMPACT

LOW LATITUDES : NONE
 MIDDLE LATITUDES : NONE
 HIGH LATITUDES : NONE - MINOR
 POLAR LATITUDES : NONE - MINOR

ESTIMATED GLOBAL IMPACT: NONE

ESTIMATED POTENTIAL DURATION OF DISTURBANCE AFTER ARRIVAL: NONE EXPECTED

problem was. You may not have done anything wrong. The TS-520 is a rather old radio. Although it has a good reputation for reliability, its age suggests that filter capacitors in its power supply could have developed leakage or shorted out. This would be more likely if it had sat up, not being used for several years.

I do not recall whether the TS-520 has a "Tune" position or not, but many rigs of that generation did. At any rate, damage could have occurred if you left it transmitting full power for too long, while trying to adjust the Iso-loop's SWR. Before doing any antenna adjustment, I suggest you start with the loading control set to minimum loading (load capacitor plates fully meshed), and "dip" the plate current with the plate tuning control. At this point, you should be sure there is sufficient grid current, and that the plate current is low enough not to cause any damage. There should be a small amount of RF output, which should be adequate to adjust the Iso-loop.

Once the Iso-loop is set for a good SWR, you can proceed to tune the TS-520 for maximum power, according to directions in the Kenwood manual. Just don't leave the key down too long!

73, Fred, K4DII

fred-mckenzie@ksc.nasa.gov

Date: 2 Mar 93 09:43:05 EST
From: titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa
Subject: NEED DOPPLER DF INFO
To: info-hams@ucsd.edu

In article <1993Mar1.151728.6092@wkuvx1.bitnet>, bcobb@wkuvx1.bitnet wrote:
> Am looking for any information concerning doppler shift direction
> finding. Several firms market doppler shift RDF equipment, but I can't
> seem to find any schematics..I wan't to build something to track down
> some local repeater problems.. Any infor would be of help..73 and tnx

Bob-

A company named Doppler Systems had a direction finding system that was advertised in one of the Ham magazines up until two or three years ago.

Another system was published in QST several years back, and subsequently included in the Antenna Handbook. It was called the "Double Duckie" direction finder, since it used two two-meter handheld antennas.

I asked a similar question last August here on the net, and got the

following reply from Ed Ingraham, WX4S, of Johnson City, Tennessee
(tjic02!eri316@uunet.uu.net):

>Try Marvin Ensign, KC4GN0

> Rt 3 Box 537

> Selma, NC 27576

> (919)965-6209

>He wants \$30+\$5s/h for an assembled and tested unit similar to the Dual

>Duckie. Our Club (Johnson City Radio Association) recently bought about

>25 of these units. We negotiated a bit of a discount for that quantity.

>I haven't heard any complaints from our members.

You didn't say which band the repeater problems were on, but this system
should work with any receiver or scanner you have on the appropriate band.

73, Fred, K4DII

fred-mckenzie@ksc.nasa.gov

Date: 2 Mar 93 21:59:57 GMT

From: ogicse!uwm.edu!wupost!darwin.sura.net!mlb.semi.harris.com!

spuds.mlb.semi.harris.com!rliles@network.UCSD.EDU

Subject: PACTOR vs AMTOR in poor S/N environment

To: info-hams@ucsd.edu

Which is better for marginal signal to noise environments; PACTOR or AMTOR.

Ray

 \ \ \ | Harris Semiconductor
 \--\--\ | Mail Stop 58-032
 \ | \ \ | P.O. Box 883
 | | | | Melbourne, Florida 32902
 | WA4VME | 407-729-4640 (Office)
 | Ray H. Liles | 407-729-4029 (FAX)
rliles@heimdall.mlb.semi.harris.com

Date: Tue, 2 Mar 1993 10:55:30 GMT

From: saimiri.primate.wisc.edu!zaphod.mps.ohio-state.edu!howland.reston.ans.net!

paladin.american.edu!news.univie.ac.>@!hp4at!mcsun!sunic!aun.uninett.no!nuug!swing!

ddm3!magne@ames.arpa

Subject: Snake Island - Which DXCC Country?

To: info-hams@ucsd.edu

Darrell Earnshaw (dearnshaw@worldbank.org) wrote:

: Can anyone enlighten me as to which DXCC country Snake Island falls
: under (4K5ZI).

: Tnx. Darrell (NR3Y)

I *think* Snake Island is Russian territory in an area that belongs to
Ukraine (the island belongs to UA, but the rest of the nearby islands is UB)
Therefor, it will count as UA (European Russia) for DXCC..

73 de Magne, LA1BFA (magne@statoil.no)

Date: 2 Mar 93 15:34:03 GMT

From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!
spool.mu.edu!olivea!apple!goofy!mumbo.apple.com!gallant.apple.com!
news@network.UCSD.EDU

Subject: Yeasu 5200 information needed - "P" Key!

To: info-hams@ucsd.edu

In article <2134@tekgen.bv.tek.com> John A. Hammond,
johnh@countach.pen.tek.com writes:

>On the 5200 microphone, there is a 'P' key. I have no idea what this is
for.

>It is not in the user's manual. A couple of friends have this radio and
have

>no clue what the button does. The local Yeasu stocked store couldn't
really

>give me a good answer. Anybody got any ideas?

I was curious about that "P" key on my FT-5100 as well! So, I called
Yesu and they explained the situation. They designed the the mic to
accomidate "future products". The "P" key is there to be taken advantage
of at a later date by other models. They just did not want to re-design
the mic again within a short period of time.

Since the button is there, I suppose if you wanted to, it could be
utilized for some other purpose via a hard wire connection.

That's the scoop. Press it all you want, it won't do noth'n :-)

Will

KB5WRK

Buda, TX

End of Info-Hams Digest V93 #279
